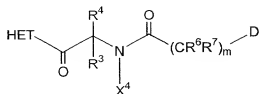


Claims

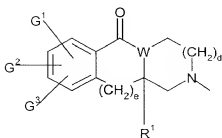
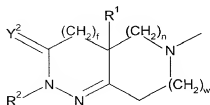
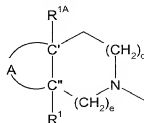
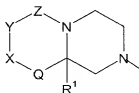
- 5 1. A compound of the formula



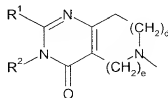
- or a stereoisomeric mixture thereof, diastereomerically enriched, diastereomerically pure, enantiomerically enriched or enantiomerically pure isomer thereof, or a prodrug of such compound, mixture or isomer thereof, or a pharmaceutically acceptable salt of the compound, mixture, isomer or prodrug,
- 10 wherein:

m is 0, 1 or 2;

HET is a heterocyclic moiety selected from the group consisting of



and



- 15 d is 0, 1 or 2;

e is 1 or 2;

f is 0 or 1;

n and w are 0, 1 or 2, provided that n and w cannot both be 0 at the same time;

5 Y^2 is oxygen or sulfur;

A is a radical, where the left hand side of the radical as shown below

is connected to C^* and the right hand side of the radical as shown below is connected

to C^* , selected from the group consisting of $-NR^2-C(O)-NR^2-$, $-NR^2-S(O)_2-NR^2-$, $-O-$

$C(O)-NR^2-$, $-NR^2-C(O)-O-$, $-C(O)-NR^2-C(O)-$, $-C(O)-NR^2-C(R^9R^{10})-$, $-C(R^9R^{10})-NR^2-$

10 $C(O)-$, $-C(R^9R^{10})-C(R^9R^{10})-C(R^9R^{10})-$, $-S(O)_2-C(R^9R^{10})-C(R^9R^{10})-$, $-C(R^9R^{10})-O-C(O)-$, $-$

$C(R^9R^{10})-O-C(R^9R^{10})-$, $-NR^2-C(O)-C(R^9R^{10})-$, $-O-C(O)-C(R^9R^{10})-$, $-C(R^9R^{10})-C(O)-NR^2-$

, $-C(O)-NR^2-C(O)-$, $-C(R^9R^{10})-C(O)-O-$, $-C(O)-NR^2-C(R^9R^{10})-C(R^9R^{10})-$, $-C(O)-O-$

$C(R^9R^{10})-$, $-C(R^9R^{10})-C(R^9R^{10})-C(R^9R^{10})-C(R^9R^{10})-$, $-S(O)_2-NR^2-C(R^9R^{10})-C(R^9R^{10})-$,

$-C(R^9R^{10})-C(R^9R^{10})-NR^2-C(O)-$, $-C(R^9R^{10})-C(R^9R^{10})-O-C(O)-$, $-NR^2-C(O)-C(R^9R^{10})-$

15 $C(R^9R^{10})-$, $-NR^2-S(O)_2-C(R^9R^{10})-C(R^9R^{10})-$, $-O-C(O)-C(R^9R^{10})-C(R^9R^{10})-$, $-C(R^9R^{10})-$

$C(R^9R^{10})-C(O)-NR^2-$, $-C(R^9R^{10})-C(R^9R^{10})-C(O)-$, $-C(R^9R^{10})-NR^2-C(O)-O-$, $-C(R^9R^{10})-O-$

$C(O)-NR^2-$, $-C(R^9R^{10})-NR^2-C(O)-NR^2-$, $-NR^2-C(O)-O-C(R^9R^{10})-$, $-NR^2-C(O)-NR^2-$

$C(R^9R^{10})-$, $-NR^2-S(O)_2-NR^2-C(R^9R^{10})-$, $-O-C(O)-NR^2-C(R^9R^{10})-$, $-C(O)-N=C(R^{11})-NR^2-$,

$-C(O)-NR^2-C(R^{11})=N-$, $-C(R^9R^{10})-NR^{12}-C(R^9R^{10})-$, $-NR^{12}-C(R^9R^{10})-$,

20 $-NR^{12}-C(R^9R^{10})-C(R^9R^{10})-$, $-C(O)-O-C(R^9R^{10})-C(R^9R^{10})-$, $-NR^2-C(R^{11})=N-C(O)-$,

$-C(R^9R^{10})-C(R^9R^{10})-N(R^{12})-$, $-C(R^9R^{10})-NR^{12}-$, $-N=C(R^{11})-NR^2-C(O)-$,

$-C(R^9R^{10})-C(R^9R^{10})-NR^2-S(O)_2-$, $-C(R^9R^{10})-C(R^9R^{10})-S(O)_2-NR^2-$,

$-C(R^9R^{10})-C(R^9R^{10})-C(O)-O-$, $-C(R^9R^{10})-S(O)_2-C(R^9R^{10})-$, $-C(R^9R^{10})-C(R^9R^{10})-S(O)_2-$,

$-O-C(R^9R^{10})-C(R^9R^{10})-$, $-C(R^9R^{10})-C(R^9R^{10})-O-$, $-C(R^9R^{10})-C(O)-C(R^9R^{10})-$,

25 $-C(O)-C(R^9R^{10})-C(R^9R^{10})-$ and $-C(R^9R^{10})-NR^2-S(O)_2-NR^2-$;

Q is a covalent bond or CH_2 ;

W is CH or N;

X is CR^9R^{10} , $C=CH_2$ or $C=O$;

Y is CR^9R^{10} , O or NR^2 ;

30 Z is $C=O$, $C=S$ or $S(O)_2$;

G^1 is hydrogen, halo, hydroxy, nitro, amino, cyano, phenyl, carboxyl, $-CONH_2$,

$-(C_1-C_4)$ alkyl optionally substituted with one or more phenyl, one or

more halogens or one or more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally

independently substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)$ alkoxy optionally substituted with one or more phenyl, one or more halogens or one or

more hydroxy groups, $-(C_1-C_4)\text{alkylthio}$, phenoxy, $-\text{COO}(C_1-C_4)\text{alkyl}$, $N,N\text{-di-}(C_1-C_4)\text{alkylamino}$, $-(C_2-C_6)\text{alkenyl}$ optionally independently substituted with one or more phenyl, one or more halogens or one or more hydroxy groups, $-(C_2-C_6)\text{alkynyl}$ optionally independently substituted with one or more phenyl, one or more halogens or one or more hydroxy groups, $-(C_3-C_6)\text{cycloalkyl}$ optionally independently substituted with one or more $(C_1-C_4)\text{alkyl}$ groups, one or more halogens or one or more hydroxy groups, $-(C_1-C_4)\text{alkylamino carbonyl}$ or $\text{di-}(C_1-C_4)\text{alkylamino carbonyl}$;

G^2 and G^3 are each independently selected from the group consisting of hydrogen, halo, hydroxy, $-(C_1-C_4)\text{alkyl}$ optionally independently substituted with one to three halogens and $-(C_1-C_4)\text{alkoxy}$ optionally independently substituted with one to three halogens;

R^1 is hydrogen, $-\text{CN}$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{C}(\text{O})\text{X}^6$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{C}(\text{O})(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{S}(\text{O})_2(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{S}(\text{O})_2\text{X}^6$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{C}(\text{O})\text{N}(\text{X}^6)(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{C}(\text{O})\text{N}(\text{X}^6)(\text{X}^6)$, $-(\text{CH}_2)_k\text{C}(\text{O})\text{N}(\text{X}^6)(\text{X}^6)$, $-(\text{CH}_2)_k\text{C}(\text{O})\text{N}(\text{X}^6)(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{C}(\text{O})\text{OX}^6$, $-(\text{CH}_2)_k\text{C}(\text{O})\text{O}(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{OX}^6$, $-(\text{CH}_2)_k\text{OC}(\text{O})\text{X}^6$, $-(\text{CH}_2)_k\text{OC}(\text{O})(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{OC}(\text{O})\text{N}(\text{X}^6)(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{OC}(\text{O})\text{N}(\text{X}^6)(\text{X}^6)$, $-(\text{CH}_2)_k\text{C}(\text{O})\text{X}^6$, $-(\text{CH}_2)_k\text{C}(\text{O})(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{C}(\text{O})\text{OX}^6$, $-(\text{CH}_2)_k\text{N}(\text{X}^6)\text{S}(\text{O})_2\text{N}(\text{X}^6)(\text{X}^6)$, $-(\text{CH}_2)_k\text{S}(\text{O})_m\text{X}^6$, $-(\text{CH}_2)_k\text{S}(\text{O})_m(\text{CH}_2)\text{-A}^1$, $-(C_1-C_{10})\text{alkyl}$, $-(\text{CH}_2)\text{-A}^1$, $-(\text{CH}_2)_k\text{-}(C_3-C_7)\text{cycloalkyl}$, $-(\text{CH}_2)_k\text{-Y}^1\text{-}(C_1-C_6)\text{alkyl}$, $-(\text{CH}_2)_k\text{-Y}^1\text{-(CH}_2)\text{-A}^1$ or $-(\text{CH}_2)_k\text{-Y}^1\text{-(CH}_2)\text{-}(C_3-C_7)\text{cycloalkyl}$;

where the alkyl and cycloalkyl groups in the definition of R^1 are optionally substituted with $(C_1-C_4)\text{alkyl}$, hydroxy, $(C_1-C_4)\text{alkoxy}$, carboxyl, $-\text{CONH}_2$, $-\text{S}(\text{O})_m(C_1-C_6)\text{alkyl}$, $-\text{CO}_2(C_1-C_4)\text{alkyl ester}$, 1H-tetrazol-5-yl or 1, 2 or 3 fluoro groups;

Y^1 is O, $\text{S}(\text{O})_m$, $-\text{C}(\text{O})\text{NX}^6$, $-\text{CH}=\text{CH}$, $-\text{C}\equiv\text{C}$, $-\text{N}(\text{X}^6)\text{C}(\text{O})$, $-\text{C}(\text{O})\text{NX}^6$,

$-\text{C}(\text{O})\text{O}$, $-\text{OC}(\text{O})\text{N}(\text{X}^6)$ or $-\text{OC}(\text{O})$;

q is 0, 1, 2, 3 or 4;

t is 0, 1, 2 or 3;

said $(\text{CH}_2)_2$ group and $(\text{CH}_2)_1$ group in the definition of R^1 are optionally independently substituted with hydroxy, $(C_1-C_4)\text{alkoxy}$, carboxyl, $-\text{CONH}_2$,

$-\text{S}(\text{O})_m(C_1-C_6)\text{alkyl}$, $-\text{CO}_2(C_1-C_4)\text{alkyl ester}$, 1H-tetrazol-5-yl, 1, 2 or 3 fluoro groups or 1 or 2 $(C_1-C_4)\text{alkyl}$ groups;

R^{1A} is selected from the group consisting of hydrogen, F, Cl, Br, I, $(C_1-C_6)\text{alkyl}$, phenyl, $(C_1-C_3)\text{alkyl}$, pyridyl, $(C_1-C_3)\text{alkyl}$, thiazolyl, $(C_1-C_3)\text{alkyl}$ and thienyl, $(C_1-C_3)\text{alkyl}$, provided that R^{1A} is not F, Cl, Br or I when a heteroatom is vicinal to C'' ;

R^2 , for each occurrence, is independently hydrogen, (C_1-C_6) alkyl, $-(C_0-C_3)$ alkyl- (C_3-C_6) cycloalkyl, $-(C_1-C_4)$ alkyl- A^1 or A^1 ;

where the alkyl groups and the cycloalkyl groups in the definition of R^2 are optionally substituted with hydroxy, $-C(O)OX^6$, $-C(O)N(X^6)(X^6)$, $-N(X^6)(X^6)$,

- 5 $-S(O)_m(C_1-C_6)$ alkyl, $-C(O)A^1$, $-C(O)(X^6)$, CF_3 , CN or 1, 2 or 3 independently selected halogens;

R^3 and R^4 are each independently selected from the group consisting of hydrogen, (C_1-C_6) alkyl, $-CH(R^b)$ -aryl, $-CH(R^b)$ -heteroaryl, $-(C_0-C_3)$ alkyl- (C_3-C_6) cycloalkyl, wherein the aryl or heteroaryl groups are optionally substituted by one or two R^b groups;

10

R^b , for each occurrence independently, is R^c , halo, $-OR^c$, $-NHSO_2R^c$, $-N(R^c)_2$, $-CN$, $-NO_2$, $-SO_2N(R^c)_2$, $-SO_2R^c$, $-CF_3$, $-OCF_3$, $-OCF_2H$ or two R^b groups attached to adjacent carbon atoms taken together to form methylenedioxy;

R^c , for each occurrence independently, is hydrogen, $-(C_1-C_6)$ alkyl, $-(C_0-C_3)$ alkylaryl, $-(C_0-C_3)$ alkylheteroaryl, (C_3-C_6) cycloalkyl; or 2 R^b taken together with the nitrogen atom to which they are attached to form a 5- or 6- membered ring optionally containing an additional heteroatom selected from O, S or NR^3 ;

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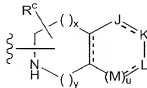
R^6 and R^7 are each independently selected from hydrogen, (C_1-C_6) alkyl, $-(C_0-C_3)$ alkylaryl, $-(C_0-C_3)$ alkylheteroaryl, $-(C_0-C_3)$ alkyl- (C_3-C_6) cycloalkyl;

20

or R^6 and R^7 together with the nitrogen atom to which they are attached form a 5- or 6-membered ring optionally containing an additional heteroatom selected from O, S, NR^3 ;

D is $-(C_0-C_6)$ alkyl-amino- $C(=NR^7)-NR^{15}R^{16}$, $-(C_0-C_6)$ alkylaminopyridyl, $-(C_0-C_6)$ alkylaminoimidazolyl, $-(C_0-C_6)$ alkylaminothiazolyl, $-(C_0-C_6)$ alkylaminopyrimidinyl, (C_0-C_6) alkylaminopiperazinyl- R^{15} , $-(C_0-C_6)$ alkylmorpholinyl, wherein R^{15} and R^{16} are independently hydrogen, $-(C_1-C_6)$ alkyl, $-(C_0-C_3)$ alkylaryl, $-(C_0-C_3)$ alkylheteroaryl, $-(C_0-C_3)$ alkyl- (C_3-C_6) cycloalkyl, wherein the alkyl and aryl groups are optionally substituted with one or two R^b groups; or D is a group of the formula

25



30

wherein the dashed lines represent optional double bonds;

u is 0 or 1;

x and y are each independently 0, 1 or 2;

J, K, L and M are each independently selected from C(R^b)_r, N, S or O wherein R^b and R^c are as defined above and r is 1 or 2;

- 5 X⁴ is hydrogen or (C₁-C₆)alkyl or X⁴ is taken together with R⁴ and the nitrogen atom to which X⁴ is attached and the carbon atom to which R⁴ is attached and form a five to seven membered ring;

- R^b is hydrogen, -(C₁-C₆)alkyl, -(C₀-C₃)alkylaryl, -(C₀-C₃)alkylheteroaryl, -(C₃-C₆)cycloalkyl; or 2 R^b taken together with the nitrogen atom to which they are
10 attached to form a 5- or 6- membered ring optionally containing an additional heteroaryl selected from O, S or NR³;

 R⁹ and R¹⁰, for each occurrence, are each independently selected from the group consisting of hydrogen, fluoro, hydroxy and (C₁-C₅)alkyl optionally independently substituted with 1-5 halogens;

- 15 R¹¹ is selected from the group consisting of (C₁-C₅)alkyl and phenyl optionally substituted with 1-3 substituents each independently selected from the group consisting of (C₁-C₅)alkyl, halo and (C₁-C₅)alkoxy;

- R¹² is selected from the group consisting of (C₁-C₅)alkylsulfonyl, (C₁-C₅)alkanoyl and (C₁-C₅)alkyl where the alkyl portion is optionally independently
20 substituted by 1-5 halogens;

- A¹ for each occurrence is independently selected from the group consisting of (C₅-C₇)cycloalkenyl, phenyl, a partially saturated, fully saturated or fully unsaturated 4- to 8-membered ring optionally having 1 to 4 heteroatoms independently selected from the group consisting of oxygen, sulfur and nitrogen and a bicyclic ring system
25 consisting of a partially saturated, fully unsaturated or fully saturated 5- or 6-membered ring, optionally having 1 to 4 heteroatoms independently selected from the group consisting of nitrogen, sulfur and oxygen, fused to a partially saturated, fully saturated or fully unsaturated 5- or 6-membered ring, optionally having 1 to 4 heteroatoms independently selected from the group consisting of nitrogen, sulfur and
30 oxygen;

 A¹ for each occurrence is independently optionally substituted, on one or optionally both rings if A¹ is a bicyclic ring system, with up to three substituents, each substituent independently selected from the group consisting of F, Cl, Br, I, -OCF₃, -OCF₂H, -CF₃, -CH₃, -OCH₃, -OX⁶,

-C(O)N(X⁶)(X⁶), -C(O)OX⁶, oxo, (C₁-C₆)alkyl, nitro, cyano, benzyl, -S(O)_m(C₁-C₆)alkyl, 1H-tetrazol-5-yl, phenyl, phenoxy, phenylalkoxy, halophenyl, methylenedioxy, -N(X⁶)(X⁶), -N(X⁶)C(O)(X⁶), -S(O)₂N(X⁶)(X⁶), -N(X⁶)S(O)₂-phenyl, -N(X⁶)S(O)₂X⁶, -CONX¹¹X¹², -S(O)₂NX¹¹X¹², -NX⁶S(O)₂X¹², -NX⁶CONX¹¹X¹², -NX⁶S(O)₂NX¹¹X¹², -NX⁶C(O)X¹², imidazolyl, thiazolyl and tetrazolyl, provided that if A¹ is optionally substituted with methylenedioxy then it can only be substituted with one methylenedioxy;

where X¹¹, for each occurrence, is independently hydrogen or optionally substituted (C₁-C₆)alkyl;

the optionally substituted (C₁-C₆)alkyl defined for X¹¹ is optionally independently substituted with phenyl, phenoxy, (C₁-C₆)alkoxycarbonyl, -S(O)_m(C₁-C₆)alkyl, 1 to 5 halogens, 1 to 3 hydroxy groups, 1 to 3 (C₁-C₁₀)alkanoyloxy groups or 1 to 3 (C₁-C₆)alkoxy groups;

X¹², for each occurrence, is independently hydrogen, (C₁-C₆)alkyl, phenyl, thiazolyl, imidazolyl, furyl or thienyl, provided that when X¹² is not hydrogen, the X¹² group is optionally substituted with one to three substituents independently selected from the group consisting of Cl, F, CH₃, OCH₃, OCF₃ and CF₃;

or X¹¹ and X¹² are taken together to form -(CH₂)_g-L¹-(CH₂)_g;

L¹ is C(X²)(X²), O, S(O)_m or N(X²);

g for each occurrence is independently 1, 2 or 3;

X² for each occurrence is independently hydrogen, optionally substituted (C₁-C₆)alkyl or optionally substituted (C₃-C₇)cycloalkyl, where the optionally substituted (C₁-C₆)alkyl and optionally substituted (C₃-C₇)cycloalkyl in the definition of X² are optionally independently substituted with -S(O)_m(C₁-C₆)alkyl, -C(O)OX³, 1 to 5 halogens or 1-3 OX³ groups;

X³ for each occurrence is independently hydrogen or (C₁-C₆)alkyl;

X⁶ for each occurrence is independently hydrogen, optionally substituted (C₁-C₆)alkyl, (C₂-C₆)halogenated alkyl, optionally substituted (C₃-C₇)cycloalkyl, (C₃-C₇)halogenated cycloalkyl, where optionally substituted (C₁-C₆)alkyl and optionally substituted (C₃-C₇)cycloalkyl in the definition of X⁶ is optionally independently mono- or di-substituted with (C₁-C₄)alkyl, hydroxy, (C₁-C₄)alkoxy, carboxyl, CONH₂, -S(O)_m(C₁-C₆)alkyl, carboxylate (C₁-C₄)alkyl ester or 1H-tetrazol-5-yl; or

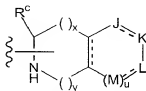
when there are two X^6 groups on one atom and both X^6 are independently (C_1-C_6) alkyl, the two (C_1-C_6) alkyl groups may be optionally joined and, together with the atom to which the two X^6 groups are attached, form a 4- to 9- membered ring optionally having oxygen, sulfur or NX^7 as a ring member;

- 5 X^7 is, for each occurrence independently, hydrogen or (C_1-C_6) alkyl optionally substituted with hydroxy;

m for each occurrence is independently 0, 1 or 2;

with the proviso that: X^6 and X^{12} cannot be hydrogen when attached to $C(O)$ or $S(O)_2$ in the form $C(O)X^6$, $C(O)X^{12}$, $S(O)_2X^6$ or $S(O)_2X^{12}$.

- 10 2. A compound according to claim 1, wherein D is

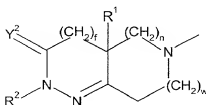


3. A compound according to claim 2, wherein x is 1, y is 1 and u is 1.

4. A compound according to claim 3, wherein J, K, L and M are each

- 15 NR^b or $C(R^b)_r$, where $r = 1$ or 2 , R^t is $-CH_2$ -aryl in which aryl is optionally substituted by R^b

5. A compound according to claim 4, wherein HET is



- 20 6. A compound according to claim 5, wherein Y^2 is oxygen, f is 0, n is 1 or 2; and w is 0 or 1.

7. A compound according to claim 6, wherein R^2 is (C_1-C_6) alkyl optionally substituted by halo, R^3 is hydrogen, n is 1, w is 1, and R^1 is aryl (C_1-C_6) alkyl, (C_1-C_6) alkyl or heteroaryl (C_1-C_6) alkyl wherein aryl and heteroaryl are optionally substituted with one or two groups from the following list: halo, $-OR^c$, $-NHSO_2R^c$,

- 25 $-N(R^c)_2$, $-CN$, $-NO_2$, $-SO_2N(R^c)_2$, $-SO_2R^c$, $-CF_3$, $-OCF_3$, $-OCF_2H$.

9. A compound according to claim 1, wherein said compound is selected from the group consisting of:

1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid [2-((R)3a-benzyl-2-methyl-3-oxo-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl)-(R)1-(4-chlorobenzyl)-2-oxo-ethyl]-amide;

1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid ((R)1-(4-chloro-benzyl)-2-[2-ethyl-(S)3a-(4-fluoro-benzyl)-3-oxo-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl]-2-oxo-ethyl)-amide;

1,2,3,4-Tetrahydro-isoquinoline-(S)-3-carboxylic acid (R)-1-(4-chloro-benzyl)-2-[(S)-3a-(4-chloro-benzyl)-2-ethyl-3-oxo-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl]-2-oxo-ethyl)-amide;

1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid [2-((S)3a-benzyl-2-methyl-3-oxo-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl)-(R)1-(4-chloro-benzyl)-2-oxo-ethyl]-amide;

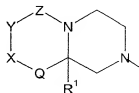
1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[(R)3a-(3-fluoro-benzyl)-3-oxo-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl]-2-oxo-ethyl}-amide;

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid [2-[3a-benzyl-3-oxo-2-(2,2,2-trifluoro-ethyl)-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl]-(R)1-(4-chloro-benzyl)-2-oxo-ethyl]-amide; and

- 5 1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid [(R)1-(4-chloro-benzyl)-2-oxo-2-(3-oxo-3a-pyridin-2-ylmethyl-2,3,3a,4,6,7-hexahydro-pyrazolo[4,3-c]pyridin-5-yl)-ethyl]-amide.

- 10 10. A compound according to claim 7, wherein J, K, L and M are each NR^b or $\text{C}(\text{R}^b)_2$ and the dashed lines represent single bonds, wherein R^b is hydrogen, halo, R^c , $-\text{OR}^c$, $-\text{CF}_3$, $-\text{OCF}_3$, $-\text{OCF}_2\text{H}$, R^c is hydrogen, $(\text{C}_1-\text{C}_6)\text{alkyl}$, $(\text{C}_0-\text{C}_3)\text{alkylaryl}$, $(\text{C}_0-\text{C}_3)\text{alkylheteroaryl}$ or $(\text{C}_3-\text{C}_6)\text{cycloalkyl}$.

11. A compound according to claim 4, wherein HET is



12. A compound according to claim 11, wherein Q is a covalent bond; X and Z are each $\text{C}=\text{O}$; and Y is NR^2 .

- 15 13. A compound according to claim 12, wherein R^2 is $(\text{C}_1-\text{C}_6)\text{alkyl}$ optionally substituted by halo, and R^1 is $\text{aryl}(\text{C}_1-\text{C}_6)\text{alkyl}$, $(\text{C}_1-\text{C}_6)\text{alkyl}$ or $\text{heteroaryl}(\text{C}_1-\text{C}_6)\text{alkyl}$ wherein aryl and heteroaryl are optionally substituted with one or two groups from the following list: halo, OR^c , $-\text{NHSO}_2\text{R}^c$, $\text{N}(\text{R}^c)_2$, CN , NO_2 , $\text{SO}_2\text{N}(\text{R}^c)_2$, $-\text{SO}_2\text{R}^c$, $-\text{CF}_3$, $-\text{OCF}_3$, $-\text{OCF}_2\text{H}$.

- 20 14. A compound according to claim 13, wherein J, K, L and M are each N or CR^b and the dashed lines represent double bonds, R^1 is benzyl optionally substituted by halo, $-\text{R}^c$, $-\text{OR}^c$, $-\text{OCF}_3$, $-\text{OCF}_2\text{H}$, and R^c is hydrogen, $-(\text{C}_1-\text{C}_6)\text{alkyl}$, $-(\text{C}_0-\text{C}_3)\text{alkylaryl}$, $-(\text{C}_0-\text{C}_3)\text{alkylheteroaryl}$ or $(\text{C}_3-\text{C}_6)\text{cycloalkyl}$.

- 25 15. A compound according to claim 1, wherein said compound is selected from the group consisting of:

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[1,3-dioxo-(S)8a-pyridin-2-ylmethyl-2-(2,2,2-trifluoro-ethyl)-hexahydro-imidazo[1,5-a]pyrazin-7-yl]-2-oxo-ethyl}-amide;

1,2,3,4-Tetrahydro-isoquinoline-(R)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[(R)8a-(4-fluoro-benzyl)-2-methyl-1,3-dioxo-hexahydro-imidazo[1,5-a]pyrazin-7-yl]-2-oxo-ethyl}-amide;

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[1,3-dioxo-(S)8a-pyridin-3-ylmethyl-2-(2,2,2-trifluoro-ethyl)-hexahydro-imidazo[1,5-a]pyrazin-7-yl]-2-oxo-ethyl}-amide;

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[8a-(4-fluoro-benzyl)-3-oxo-tetrahydro-oxazolo[3,4-a]pyrazin-7-yl]-2-oxo-ethyl}-amide;

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[8a-(4-fluoro-benzyl)-2-methyl-1,3-dioxo-hexahydro-imidazo[1,5-a]pyrazin-7-yl]-2-oxo-ethyl}-amide; and

1,2,3,4-Tetrahydro-isoquinoline-(S)3-carboxylic acid {(R)1-(4-chloro-benzyl)-2-[8a-(4-fluoro-benzyl)-2-methyl-1,3-dioxo-hexahydro-imidazo[1,5-a]pyrazin-7-yl]-2-oxo-ethyl}-amide.

16. A compound according to claim 13, wherein J, K, L and M are each NR^b or $\text{C}(\text{R}^b)_2$ and the dashed lines represent single bonds, R^b is hydrogen, halo, R^c , OR^c , $-\text{CF}_3$, $-\text{OCF}_3$, $-\text{OCF}_2\text{H}$, R^c is hydrogen, $-\text{C}_1-\text{C}_8$ alkyl, $-(\text{C}_0-\text{C}_3)\text{alkylaryl}$, $-(\text{C}_0-\text{C}_3)\text{alkylheteroaryl}$ or $-(\text{C}_3-\text{C}_6)\text{cycloalkyl}$.

17. A method for the treatment or prevention of disorders, diseases or conditions responsive to the activation of melanocortin receptor which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

18. A method for the treatment or prevention of obesity which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

19. A method for the treatment or prevention of diabetes mellitus which comprises administering to a mammal in need of such treatment or prevention an effective amount of Claim 1.

20. A method for the treatment or prevention of male or female sexual dysfunction which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

21. A method for the treatment or prevention of erectile dysfunction which

comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

22. A method for modulating appetite and metabolic rates of mammals which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

23. A method for treating or preventing disorders that cause reduction in appetite, feeding behavior and/or body weight in a mammal which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

24. A method for acutely stimulating the appetite of companion animals for the treatment of hepatic lipidosis, cachexia and other pathologies resulting in/from inappropriate food intake and weight loss, which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

25. A method for acutely stimulating the appetite of livestock for the treatment of ketosis, postpartum anestrus, and other metabolic and reproductive pathologies resulting in/from inappropriate food intake and weight loss which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

26. A method that will enhance growth and survivability of neonates in livestock which comprises administering to a mammal in need of such treatment or prevention an effective amount of a compound of Claim 1.

27. A pharmaceutical composition which comprises a compound of Claim 1 and a pharmaceutically acceptable carrier.

28. A pharmaceutical composition of claim 27 further comprising a second active ingredient selected from an insulin sensitizer, insulin mimetic, sulfonylurea, α -glucosidase inhibitor, HMG-CoA reductase inhibitor, sequestrant cholesterol lowering agent, β 3 adrenergic receptor agonists, neuropeptide Y antagonist, phosphodiester V inhibitor, and α -2 adrenergic receptor antagonist.